

(*) Do you think that India's energy mix has taken the path of sustainable development and energy transition for a clean & green future? Critically Analyze.

India is the 6th largest economy & is expected to become 3rd largest by 2030. India is also the third largest energy consumer in the world.

As per BP energy outlook, India's share of global energy consumption expected to rise from 6% to 8% by 2030.

⇒ India's energy mix :-

→ Natural Gas :-

- It is least carbon intensive & has high hydrogen / carbon ratio
- Releases 50% less CO₂ than coal
- Globally, share of Natural Gas in energy mix is 24%, while it is only 6% in India.

- India aims to achieve 15% by 2030, & accelerate towards gas based economy
- Also working towards "One Nation One Grid Gas pipeline" of 16,500 km length

⇒ Biofuel :-

- Greater reliance on domestic sources especially biofuel.
- "SATAT" initiative aims to setup 5000 Compressed Biogas (CBG) plants by 2024 to achieve 15 MTPA

⇒ CNG :-

- It is green fuel & is lead & sulphur free
- Idea of using LNG for heavy vehicles & CNG for buses is being implemented in India.

⇒ Way forward :-

- The push towards gas based economy emphasis on EV & digital innovation in energy system will help India achieve 450 GW Renewable by 2030
- Need of hour is to opt for fuel not only efficient but also environment friendly in 2 ways
 - Decarbonisation
 - Technologies.

Thus, India has taken a responsible path of sustainable development and energy transition for clean & green future.